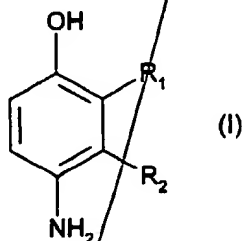


**WHAT IS CLAIMED IS:**

1. A composition for the oxidation dyeing of keratin fibres comprising, in a medium which is suitable for dyeing:

(a) at least one oxidation base chosen from a substituted para-aminophenol corresponding to formula (I), and an addition salt thereof with an acid:



in which:

R<sub>1</sub> is chosen from hydrogen, fluorine, C<sub>1</sub>-C<sub>4</sub> alkyl radicals, C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radicals, C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> alkoxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> aminoalkyl radicals, and monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl radicals; R<sub>2</sub> is chosen from hydrogen, fluorine, C<sub>1</sub>-C<sub>4</sub> alkyl radicals, C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radicals, C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> aminoalkyl radicals, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl radicals, and C<sub>1</sub>-C<sub>4</sub> alkoxyalkyl radicals; and

provided that at least one, and only one, of R<sub>1</sub> and R<sub>2</sub> is hydrogen; and

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(b) a coupler chosen from 1,3-bis( $\beta$ -hydroxyethyl)amino-2-methylbenzene and an addition salt thereof with an acid;

wherein said composition does not include an oxidation base chosen from pyrimidine, pyrimidine derivatives, 2- $\beta$ -hydroxyethyl-para-phenylenediamine, and addition salt thereof with an acid.

2. The composition according to claim 1, wherein the keratin fibers are human keratin fibers.

3. The composition according to claim 2, wherein the human keratin fibres are hair.

4. The composition according to Claim 1, wherein the oxidation base is chosen from 4-amino-3-methylphenol, 4-amino-3-fluorophenol, 4-amino-3-hydroxymethylphenol, 4-amino-2-methylphenol, 4-amino-2-hydroxymethylphenol, 4-amino-2-methoxymethylphenol, 4-amino-2-aminomethylphenol, 4-amino-2-( $\beta$ -hydroxyethylaminomethyl)phenol and 4-amino-2-fluorophenol, and an addition salt thereof with an acid.

5. The composition according to claim 1, wherein the oxidation base is present in said composition in an amount ranging from 0.0005 to 12% by weight relative to the total weight of the composition.

6. The composition according to claim 5, wherein the oxidation base is present in said composition in an amount ranging from 0.005 to 6% by weight relative to the total weight of the composition.

7. The composition according to claim 1, wherein the coupler is present in said composition in an amount ranging from 0.001 to 10% by weight relative to the total weight of the composition.

8. The composition according to claim 7, wherein the coupler is present in said composition in an amount ranging from 0.01 to 5% by weight relative to the total weight of the dye composition.

9. The composition according to claim 1, further comprising at least one additional coupler other than 1,3-bis( $\beta$ -hydroxyethyl)amino-2-methylbenzene and an addition salt thereof with an acid.

10. The composition according to claim 9, further comprising at least one direct dye.

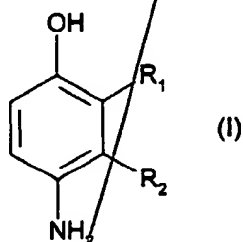
11. The composition according to claim 1, further comprising at least one direct dye.

12. The composition according to claim 1, wherein the addition salt with an acid is chosen from a hydrochloride, a hydrobromide, a sulphate, a tartrate, a lactate, and an acetate.

13. A process for dyeing keratin fibres comprising the steps of 1) applying to said fibers at least one dye composition, and 2) developing a color at acidic, neutral or alkaline pH with the aid of an oxidizing agent which is added to the dye composition only at the time of <sup>application</sup> use; or which is present in an oxidizing composition that is applied simultaneously with the dye composition

or sequentially after application of the dye composition, said at least one dye composition comprising, in a medium which is suitable for dyeing:

(a) at least one oxidation base chosen from a substituted para-aminophenol corresponding to formula (I), and an addition salt thereof with an acid:



in which:

R<sub>1</sub> is chosen from hydrogen, fluorine, C<sub>1</sub>-C<sub>4</sub> alkyl radicals, C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radicals, C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> alkoxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> aminoalkyl radicals, and monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl radicals;

R<sub>2</sub> is chosen from hydrogen, fluorine, C<sub>1</sub>-C<sub>4</sub> alkyl radicals, C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radicals, C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radicals, C<sub>1</sub>-C<sub>4</sub> aminoalkyl radicals, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl radicals, and C<sub>1</sub>-C<sub>4</sub> alkoxyalkyl radicals;

provided that at least one, and only one, of R<sub>1</sub> and R<sub>2</sub> is hydrogen; and

(b) a coupler chosen from 1,3-bis(β-hydroxyethyl)amino-

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cont*

2-methylbenzene and an addition salt thereof with an acid;

wherein said composition does not include an oxidation base chosen from pyrimidine, pyrimidine derivatives, 2- $\beta$ -hydroxyethyl-para-phenylenediamine, and an addition salt thereof with an acid.

14. The process according to claim 13, wherein the keratin fibres are human keratin fibres.

15. The process according to claim 14, wherein the human keratin fibres are hair.

16. The process according to claim 13, wherein the oxidizing agent present in the oxidizing composition is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids, and enzymes.

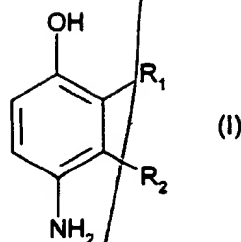
17. The process according to claim 16, wherein the persalts are chosen from perborates, percarbonates and persulphates.

18. A multi-compartment dyeing kit comprising a first compartment that contains a dye composition for the oxidation dyeing of keratin fibres comprising, in a medium which is suitable for dyeing:

(a) at least one oxidation base chosen from a substituted para-aminophenol corresponding to formula (I), and an addition salt thereof with an acid.

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in which:

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$R_1$  is chosen from hydrogen, fluorine,  $C_1$ - $C_4$  alkyl radicals,  $C_1$ - $C_4$  monohydroxyalkyl radicals,  $C_2$ - $C_4$  polyhydroxyalkyl radicals,  $C_1$ - $C_4$  alkoxyalkyl radicals,  $C_1$ - $C_4$  aminoalkyl radicals, and monohydroxy( $C_1$ - $C_4$ )alkylamino( $C_1$ - $C_4$ )alkyl radicals;

$R_2$  is chosen from hydrogen, fluorine,  $C_1$ - $C_4$  alkyl radicals,  $C_1$ - $C_4$  monohydroxyalkyl radicals,  $C_2$ - $C_4$  polyhydroxyalkyl radicals,  $C_1$ - $C_4$  aminoalkyl radicals, cyano( $C_1$ - $C_4$ )alkyl radicals, and  $C_1$ - $C_4$  alkoxyalkyl radicals;

provided that at least one, and only one, of  $R_1$  and  $R_2$  is hydrogen; and

(b) a coupler chosen from 1,3-bis( $\beta$ -hydroxyethyl)amino-2-methylbenzene and the addition salts thereof with an acid;

wherein said composition does not include an oxidation base chosen from pyrimidine, pyrimidine derivatives, 2- $\beta$ -hydroxyethyl-para-phenylenediamine, and an addition salt thereof with an acid, and

a second compartment that contains an oxidizing composition.